

*PATENT*  
*02570-P0013A WWW/MGG*

Abstract

A sensor and method of manufacturing an extended temperature range EMF sensor that is cost effective and highly reliable, with a stable EMF output and with an operating range of up to 1700 °C in hostile environments. The sensor is formed of highly stable dispersion hardened materials capable of withstanding mechanical loads and chemical attacks at elevated temperatures while maintaining internal chemical integrity. Electronics are implemented to condition the devices output and convert it to an industry standard.